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09/963,453	09/27/2001	Koichi Hashimoto	24796	9553	
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Sixth Floor 1030 Fifteenth Street, N.W. Washington, DC 20005			LIANG, LEONARD S		
washington, DC 20003			ART UNIT	PAPER NUMBER	
			2853		
		. DATE MAILED: 04/23/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Speciant(s)					W				
## Examiner ## Leanard S Liang ## 2853 ## Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of this communication appears on the cover sheet with the correspondence address ## Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. *# Experiod of the Communication of the Cover of th	Office Action Summary		Application No.	Applicant(s)	Ţ-				
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DETAILED ACTION

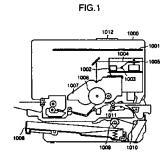
Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higuchi (US Pat 6144457) in view of Horie et al (US Pat 5208640).

Higuchi discloses:

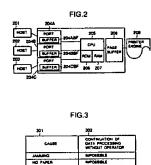
• {claim 1} A printing machine (figure 1);



an image formation unit which serves to perform a printing operation on a printing sheet (figure 1); a paper feed unit which serves to supply the image formation units with printing sheets (figure 1, reference 1008); an error detection unit which serves to detect an error occurring in the printing machine (abstract; column 2, lines 1-12); a computer readable ROM (figure 2, reference 206) having an error classified table stored therein in which errors in the printing machine are classified (figure 3; column 1, lines 27-65; column 2, lines 1-12); a control unit

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comprising a CPU connected to the ROM, the CPU having an error judgment computer program executed thereon (abstract; column 5, lines 34-50)



- {claim 2} the control unit is capable of taking control of the printing machine in order to continue, without suspending, the printing operation when the control unit judges occurrence of an error with which the printing operation of at least one of the image formation units can be continued (abstract; column 1, lines 28-67; column 2, lines 1-12; column 5, lines 34-50)
- {claim 3} the control unit is capable of reporting the result of judgment to a user (figure 3; column 3, lines 13-32)
- {claim 4} the control unit is capable of reporting the result of judgment to a user (as taught in claim 3)
- {claim 5} the control unit is capable of reporting information of the penalty in throughput when a detected error is an error with which the printing operation of at least one of the image formation units can be continued (figure 3; column 3, lines 13-32)

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• {claim 6} the control unit is capable of reporting information of the penalty in throughput when a detected error is an error with which the printing operation of at least one of the image formation units can be continued (as taught in claim 5)

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- {claim 7} A method of reporting an error in a printing machine having an image formation unit which serves to perform a printing operation on a printing sheet; an error detecting step; an error look-up step; an error judging step; an error reporting step (figure 1; figure 3; column 1, lines 27-65; column 2, lines 1-12; column 3, lines 13-32)
- {claim 8} reporting information of the penalty in throughput when a detected error is an error with which the printing operation of at least one of the image formation units can be continued (as taught in claim 5)
- {claim 9} one of the CPU and the ROM are located remote from and connected to the printing machine via a network connection (figure 2)

Higuchi differs from the claimed invention in that it does not disclose:

• {claim 1} a plurality of image formation units; a printed sheet transportation unit which serves to transport the printing sheets having been printed from the image formation units to a common output location; the classified table including at least one error on an occurrence of which a printing operation of at least one of the image formation units can be continued while a printing operation of another of the image formation units must be halted, and at least one error on an occurrence of which printing operations of all of the image formation units must be halted; the computer program judges whether or not a detected error is an

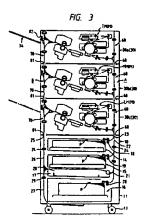
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error with which a printing operation of at least one of the image formation units can be continued while a printing operation of another of the image formation units must be halted, or an error with which printing operations of all of the image formation units must be halted

{claim 7} plurality of image formation units; printed sheet transportation unit which serves to transport the printing sheet from the image formation units to a common output location; judging whether or not the detected error is an error with which the printing operation of at least one of the image formation units can be continued while a printing operation of another of the image formation units must be halted or an error with which the printing operation of all of the image formation units must be halted

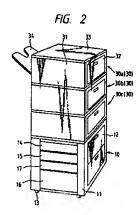
Horie et al discloses:

• {claim 1} a plurality of image formation units (figure 3, reference TM, MM, LM; column 2, lines 17-19);



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a printed sheet transportation unit which serves to transport the printing sheets having been printed from the image formation units to a common output location (figure 2, reference 34; column 2, lines 31-39)



• {claim 7} plurality of image formation units (as taught in claim 1); printed sheet transportation unit which serves to transport the printing sheet from the image formation units to a common output location (as taught in claim 1)

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teachings of Horie et al into the invention of Higuchi so that there are a plurality of image formation units and a printed sheet transportation unit which serves to transport the printing sheets to a common output location. The motivation for the skilled artisan in doing so is to gain the benefit of avoiding an unwanted increase of installation area and troublesome management of recording sheets (column 2, lines 10-16). The combination naturally suggests that the classified table includes at least one error on an occurrence of which a printing operation of at least one of the image formation units can be continued while a printing operation of another of the image formation units must be halted, and at least one error on an occurrence of which printing operations of all of the image formation units must be halted, and

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that the computer program judges whether or not a detected error is an error with which a

printing operation of at least one of the image formation units can be continued while a printing

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operation of another of the image formation units must be halted, or an error with which printing

operations of all of the image formation units must be halted.

Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Morrell (US Pat 4745602) discloses a printer error and control system.

Beck (US Pat 6275299) discloses a multiple spooler printing system.

Kagita (US Pat 5620264) discloses an error control system for a printer.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Leonard S Liang whose telephone number is (703) 305-4754.

The examiner can normally be reached on 8:30-5 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Russ Adams can be reached on (703) 308-2847. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 308-7724 for regular

communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

iSL

April 17, 2003

gudy Mguyen